Listing of Claims

- 1-38. (Cancelled)
- 39. (Currently Amended) An oligonucleotide probe comprising a sequence of at least $\frac{10}{12}$ contiguous nucleotides of a human mitochondrial genome, wherein the oligonucleotide probe comprises a ΔC mutation at nucleotide $\frac{302}{203}$.
- 40. (Currently Amended) An oligonucleotide primer comprising a sequence of at least $\frac{10}{12}$ contiguous nucleotides of a human mitochondrial genome, wherein the oligonucleotide primer comprises a ΔC mutation at nucleotide $\frac{302}{303}$ 303.
- 41-117. (Cancelled)
- 118. (Cancelled)
- 119. (Previously Presented) The oligonucleotide probe of claim 39 or primer of claim 40 which comprises a sequence of at least 14 contiguous nucleotides of a human mitochondrial genome.
- 120. (Previously Presented) The oligonucleotide probe of claim 39 or primer of claim 40 which comprises a sequence of at least 16 contiguous nucleotides of a human mitochondrial genome.
- 121. (Previously Presented) The oligonucleotide probe of claim 39 or primer of claim 40 which comprises a sequence of at least 18 contiguous nucleotides of a human mitochondrial genome.
- 122. (Previously Presented) The oligonucleotide probe of claim 39 or primer of claim 40 which comprises a sequence of at least 20 contiguous nucleotides of a human mitochondrial genome.
- 123. (Previously Presented) The oligonucleotide probe of claim 39 or primer of claim 40 which comprises a sequence of at least 22 contiguous nucleotides of a human mitochondrial genome.

- 124. (Previously Presented) The oligonucleotide probe of claim 39 or primer of claim 40 which comprises a sequence of at least 24 contiguous nucleotides of a human mitochondrial genome.
- 125. (Previously Presented) The oligonucleotide probe of claim 39 or primer of claim 40 which comprises a sequence of at least 26 contiguous nucleotides of a human mitochondrial genome.

126. (Cancelled)